Index of Claims

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Applicant(s)/Patent under Reexamination

10/644,758

Examiner

KITAHARA, TOSHIYUKI Art Unit

Mark Blouin

2653

Rejected **Allowed** 

| _        | (Through numeral)<br>Cancelled |
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| Claim                   | Date         |          |          |              |          |          | 1 1      | Cla      | aim       | ı   | Date  |          |           |   |          |                                     |          |          |          |   |
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|                         |              |          |          |              |          |          |          | J16      | $\vdash$  |     |       |          |           |   |          |                                     |          |          |          |   |
| Final<br>Original       | 12/8/05      | 4/18/06  | 11/15/06 |              |          |          |          |          |           |     | Final | Original |           |   |          |                                     |          |          |          |   |
| 1                       | 7            | 1        | =        | T            |          |          | Ι        |          | _         | 1   |       | 51       | Н         |   | $\vdash$ |                                     |          |          | $\vdash$ | t |
| 2                       | J            | ¥        | _        | <b>-</b>     | Т        | $\vdash$ | T        | <u> </u> |           |     |       | 52       | _         |   | _        | _                                   |          | -        | $\vdash$ | t |
| 7 3                     | 1            | 1        | =        |              |          |          |          | ┢        | _         |     |       | 53       | _         |   | _        | _                                   |          |          | $\vdash$ | T |
| 3 4                     | 1            | 1        | =        |              |          |          |          | _        |           |     |       | 54       |           |   |          |                                     |          |          |          | T |
| 4 5                     | 1            | 1        | =        | Т            |          |          |          | Г        |           | 1   |       | 55       |           |   | _        | $\vdash$                            |          | _        |          | T |
| 6                       | 4            | 4        |          | Г            |          | Т        |          |          |           | 1   |       | 56       |           | _ | _        |                                     |          |          |          | T |
| 7                       | 1            | 1        | =        |              |          |          |          |          | $\Box$    | 1   |       | 57       |           |   |          |                                     |          |          |          | T |
| 6 8                     | ٧            | 1        | =        |              |          |          |          |          |           |     |       | 58       |           |   |          |                                     |          |          |          | T |
| 7 9                     | ٧            | 1        | =        |              |          |          |          |          |           |     |       | 59       |           |   |          |                                     |          |          |          | T |
| 40-                     | +            | +        | _        | F            |          | Г        |          |          |           | 1 1 |       | 60       |           |   |          |                                     |          |          |          | T |
| <b>%</b> 11 <b>9</b> 12 | 1            | 1        | =        |              |          |          |          |          |           |     |       | 61       |           |   |          | П                                   | Г        |          |          | Г |
| <b>4</b> 12             | 1            | 1        | =        |              |          |          |          |          |           |     |       | 62       |           |   |          |                                     |          |          |          | Γ |
| 10 13                   | 1            | 1        | =        |              |          |          |          |          |           |     |       | 63       |           |   |          |                                     |          |          |          | Γ |
| 14                      | +            | 7        |          |              |          |          |          |          |           |     |       | 64       |           |   |          |                                     |          |          |          | Γ |
| 15                      | 1            | 1        | =        |              |          |          |          |          |           |     |       | 65       |           |   |          |                                     |          |          |          | Γ |
| 12 16                   | 1            | 1        | =        |              |          |          |          |          |           |     |       | 66       |           |   |          |                                     |          |          |          |   |
| 47                      | +            | 1        | -        |              |          |          |          |          |           |     |       | 67       |           |   |          |                                     |          |          |          | Γ |
| 13 18                   | ٧            | 1        | =        |              |          |          |          |          |           |     |       | 68       |           |   |          |                                     |          |          |          |   |
| 14 19                   | V            | 1        | =        |              |          |          |          |          |           |     |       | 69       |           |   |          |                                     |          |          |          |   |
| 20                      | 1            | 1        | =        |              |          |          |          |          |           |     |       | 70       |           |   |          |                                     |          |          |          | L |
| 21                      |              |          |          |              |          |          |          |          |           |     |       | 71       |           |   |          |                                     | <u> </u> |          |          | Γ |
| 22                      |              |          |          |              |          |          |          |          |           |     |       | 72       |           |   |          |                                     |          |          |          | Γ |
| 23                      |              |          |          | L            | L.       | L        |          |          |           |     |       | 73       |           |   |          |                                     |          |          |          |   |
| 24                      |              |          |          |              | L.       | L.       |          |          |           |     |       | 74       |           |   |          |                                     |          |          |          |   |
| 25                      |              | _        |          | $oxed{oxed}$ |          |          |          |          |           |     |       | 75       |           |   |          |                                     |          |          |          | L |
| 26                      |              |          |          | L            |          | L        |          |          | <u>_</u>  |     |       | 76       |           |   |          |                                     |          |          |          | L |
| 27                      | _            | _        |          |              | <u></u>  | L        |          |          | _         |     |       | 77       |           |   |          |                                     |          |          |          |   |
| 28                      | $oxed{oxed}$ | _        | <u></u>  |              |          |          | L        |          | <u> </u>  |     |       | 78       |           |   |          |                                     |          |          |          |   |
| 29                      | L            |          |          |              |          |          |          |          |           |     |       | 79       |           |   | _        | _                                   |          |          |          |   |
| 30                      | L            | _        | _        |              |          |          |          |          | 匚         |     |       | 80       |           |   |          |                                     |          |          |          | L |
| 31                      |              |          |          |              | L.       |          | <u> </u> |          |           |     |       | 81       |           |   |          |                                     |          |          |          |   |
| 32                      | _            |          | _        |              |          |          | _        |          | L         |     |       | 82       |           |   | _        | L                                   |          |          |          | L |
| 33                      |              |          |          |              | _        |          | _        |          | L_        |     |       | 83       |           |   |          | _                                   |          |          | _        | L |
| 34                      |              | <u> </u> | <u> </u> |              |          |          |          |          |           |     |       | 84       | Ш         |   |          | L                                   |          | _        | <u>_</u> | L |
| 35                      | $\square$    | <u> </u> |          | <b> </b>     | _        | Щ        | <u> </u> | <u> </u> | <u> </u>  |     |       | 85       | Ш         |   | <u> </u> | <u> </u>                            |          | <u> </u> | <u> </u> | L |
| 36                      |              | <u>_</u> | <u> </u> |              | _        | _        | _        |          |           |     |       | 86       | Ш         |   | L.       | L                                   | L_       | L_       | <u> </u> | L |
| 37                      | Ш            | _        | <u> </u> | $\vdash$     | <u> </u> | Щ        | <u> </u> |          | <u> </u>  |     |       | 87       | Ш         |   | <u> </u> | <u> </u>                            | <u> </u> | <u> </u> | L        | L |
| 38                      |              |          |          | <u> </u>     | <u> </u> | <u> </u> | <b> </b> | L_       | <u> _</u> |     |       | 88       | Щ         |   | <u> </u> | <u> </u>                            |          | _        | <u> </u> | L |
| 39                      | Щ            | <u> </u> |          | <u> </u>     | <u> </u> | ∟        |          | <u> </u> | <u> </u>  |     |       | 89       | Ш         |   | <u> </u> | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | _        | Ь        | L |
| 40                      | $\sqcup$     | <u> </u> | <u> </u> | <u> </u>     | $\vdash$ |          | <u> </u> | <u> </u> | <u> </u>  |     |       | 90       | $\square$ |   | <u> </u> | <u> </u>                            |          | <u> </u> | <u> </u> | L |
| 41                      |              | <u> </u> |          | <u> </u>     |          | _        | <u> </u> |          | <u> </u>  |     |       | 91       | Ш         |   |          | <u> </u>                            |          | _        | <u> </u> | L |
| 42                      | $\perp$      | <u> </u> |          | <u> </u>     |          | <u> </u> | _        | <u> </u> | $\vdash$  |     |       | 92       | Щ         |   | <u> </u> | L                                   | _        |          | <u> </u> | L |
| 43                      | $\vdash$     | <u> </u> |          | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | L        | <u> </u>  |     |       | 93       | Щ         |   | <u> </u> | <u> </u>                            | _        | _        | <u> </u> | Ļ |
| 44                      | $\vdash$     | <u> </u> | <u> </u> | <u> </u>     | _        | <u> </u> | _        | <u> </u> | <u> </u>  |     |       | 94       |           |   | <b> </b> | <u> </u>                            | <u> </u> |          | <u> </u> | L |
| 45                      |              | <u> </u> | <u> </u> | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | <u> </u> | _         |     |       | 95       | $\vdash$  |   | <u> </u> | <u> </u>                            | <u> </u> |          | <u> </u> | L |
| 46                      | -            | _        |          | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <b> </b>  |     |       | 96       | Щ         |   | <u> </u> | <b>—</b>                            | _        | _        | _        | L |
| 47                      |              | <u> </u> | <u> </u> | <b> </b>     |          | _        | <u> </u> |          | <u> </u>  |     |       | 97       | Ш         | _ | _        | _                                   | _        | _        | <u> </u> | L |
| 48                      | H            | <u> </u> | _        | ⊢            |          | <u> </u> |          | <u> </u> | <u> </u>  |     |       | 98       | Ш         |   | <u> </u> | <u> </u>                            | <u> </u> |          | <u> </u> | L |
| 49                      | _            | _        | <u> </u> | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | <b> </b> | <u> </u>  |     |       | 99       | Щ         |   | _        | <u> </u>                            | <u> </u> | <u> </u> | _        | L |
| 50                      | L            |          |          | <u> </u>     | <u></u>  | L_       | L        | L        | L_        | J ( |       | 100      |           |   | <u> </u> |                                     | L_       | L        | 乚        | L |

| Cla      | aim      | Date |             |          |              |          |  |               |          |          |  |  |
|----------|----------|------|-------------|----------|--------------|----------|--|---------------|----------|----------|--|--|
|          |          |      |             |          |              |          |  |               |          |          |  |  |
| Final    | Original |      |             |          |              |          |  |               |          |          |  |  |
|          | 51<br>52 | П    | _           |          |              |          |  |               |          | Г        |  |  |
|          | 52       |      |             |          |              |          |  |               |          | $\Box$   |  |  |
|          | 53       | _    | _           |          | _            |          |  | $\overline{}$ |          |          |  |  |
|          | 54       |      |             |          |              |          |  |               |          | $\vdash$ |  |  |
|          | 54<br>55 | _    | _           |          |              |          | _  |               |          | _        |  |  |
|          | 56       |      |             |          | _            |          |  |               |          | $\vdash$ |  |  |
|          | 57       |      | _           |          |              |          |  |               | _        |          |  |  |
|          | 58       |      |             |          |              |          |  |               |          |          |  |  |
|          | 59       |      |             |          |              |          |  |               |          |          |  |  |
|          | 60       |      | _           |          |              |          |  |               |          |          |  |  |
|          | 61       |      |             |          |              |          |  |               |          |          |  |  |
|          | 62       |      |             |          |              |          |  |               |          |          |  |  |
|          | 63       |      |             |          |              |          |  |               |          |          |  |  |
|          | 64       |      |             |          |              |          |  |               |          |          |  |  |
|          | 65       |      |             |          |              |          |  |               |          |          |  |  |
|          | 66       |      |             |          |              |          |  |               |          |          |  |  |
|          | 67       |      |             |          |              |          |  |               |          |          |  |  |
|          | 68       |      |             |          |              |          |  |               |          |          |  |  |
|          | 69       |      |             |          |              |          |  |               |          | L        |  |  |
|          | 70       |      |             |          |              |          |  |               |          |          |  |  |
|          | 71       |      | L           |          | _            | L        |  |               |          |          |  |  |
| <u> </u> | 72       |      |             |          |              |          |  |               |          |          |  |  |
|          | 73       |      | _           |          |              |          |  |               |          | _        |  |  |
|          | 74       |      | <u> </u>    |          |              |          |  |               |          | _        |  |  |
|          | 75       |      | _           | _        | _            | _        |  | $\vdash$      | _        | <u> </u> |  |  |
|          | 76<br>77 |      | _           |          |              | <u> </u> | H  | $\vdash$      |          | <u> </u> |  |  |
|          | 77       |      |             |          |              | <u> </u> |  |               |          | _        |  |  |
| -        | 78<br>79 |      | _           | _        | _            | _        | <u> </u>   |               |          | _        |  |  |
|          | 80       |      |             | -        |              | -        | _  | _             |          | _        |  |  |
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| -        | 81<br>82 |      |             | H        |              | <b>—</b> |  |               |          | ⊢        |  |  |
| -        | 83       |      | -           |          | -            | -        | -  |               |          | $\vdash$ |  |  |
| -        | 84       | -    | -           |          |              | -        | -  | $\vdash$      |          | $\vdash$ |  |  |
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|          | 87       |      | <del></del> |          | -            |          | -  |               | Н        |          |  |  |
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| -        | 89       |      | $\vdash$    | $\vdash$ | $\vdash$     |          | Н  | Т             | Т        |          |  |  |
|          | 90       |      |             | Г        |              |          | П  | П             |          | $\vdash$ |  |  |
|          | 91       |      | Т           | $\vdash$ | Т            |          | Т  | Т             |          |          |  |  |
|          | 92       |      |             | П        |              |          |  |               |          | Г        |  |  |
|          | 93       |      |             |          |              |          |  |               |          |          |  |  |
|          | 94       |      |             |          |              |          |  |               |          |          |  |  |
|          | 95       |      |             |          |              |          |  |               |          |          |  |  |
|          | 96       |      |             |          |              |          |  |               |          |          |  |  |
|          | 97       |      |             |          |              |          |  |               |          |          |  |  |
|          | 98       |      |             |          |              |          |  |               |          |          |  |  |
|          | 99       |      |             |          |              |          | L  |               |          |          |  |  |
|          | 100      |      |             |          |              |          |  |               |          | _        |  |  |

| Claim |                                 | Date   |          |  |              |              |              |          |                |          |  |
|-------|---------------------------------|--|----------|--|--------------|--------------|--------------|----------|----------------|----------|--|
| Final | Original                        |  |          |  |              |              |              |          |                |          |  |
|       | 101                             |  |          | П  | Г            |              |              |          |                |          |  |
|       | 102<br>103                      |  |          |  | Г            |              |              |          |                |          |  |
|       | 103                             |  |          |  |              |              |              |          |                |          |  |
|       | 104                             |  |          |  |              |              |              |          |                |          |  |
|       | 105                             |  |          |  |              |              |              |          |                |          |  |
|       | 106                             |  |          |  | _            |              |              |          |                | Ш        |  |
|       | 107                             |  |          |  |              |              | L            |          | <u> </u>       |          |  |
|       | 108                             |  | _        | _  | _            | _            | <u> </u>     |          | _              | _        |  |
|       | 109                             |  |          |  |              |              |              |          | <u> </u>       | Щ        |  |
|       | 110                             |  | _        | H  | _            | _            | <u> </u>     |          | <u> </u>       | $\dashv$ |  |
|       | 111<br>112                      | _  | _        | $\vdash$   |              | -            | ├            |          | ├—             | $\dashv$ |  |
|       | 112                             |  | -        | ├  | _            | _            | ├            |          | ├-             | Н        |  |
|       | 113<br>114<br>115               | -  |          | $\vdash$   | -            |              | <del> </del> | -        | $\vdash$       | $\vdash$ |  |
|       | 115                             | H  |          | $\vdash$   | $\vdash$     |              | $\vdash$     |          | ├─             | Н        |  |
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|       | 117                             | <del>                                     </del> |          | <del>                                     </del> | $\vdash$     | $\vdash$     | $\vdash$     | <u> </u> | $\vdash$       | $\dashv$ |  |
|       | 118                             | $\vdash$   |          | -  |              |              | $\vdash$     |          | $\vdash$       | H        |  |
|       | 119                             |  |          | $\vdash$   |              |              | Т            |          |                |          |  |
|       | 120                             | _  | _        | $\vdash$   |              |              |              |          |                |          |  |
|       | 121<br>122<br>123               | $\vdash$   |          |  |              |              |              |          |                | П        |  |
|       | 122                             |  |          | <u> </u>   |              |              |              |          | Г              |          |  |
|       | 123                             |  |          |  |              |              |              |          |                |          |  |
|       | 124<br>125<br>126<br>127<br>128 |  |          |  |              |              |              |          |                |          |  |
|       | 125                             |  |          |  |              |              |              |          |                | Ш        |  |
|       | 126                             |  |          |  |              |              | L            |          |                | Ш        |  |
|       | 127                             |  |          | _  |              |              | <u> </u>     |          |                | Ц        |  |
|       | 128                             | _  | _        | _  | _            | _            | <u> </u>     |          | <u> </u>       | Н        |  |
|       | 129<br>130                      | _  |          |  | _            | _            | <u> </u>     |          | <u> </u>       | Н        |  |
|       | 130                             | _  | _        | _  | _            | <u> </u>     | <u> </u>     |          | <u> </u>       | Н        |  |
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|       | 132<br>133                      |  |          | ⊢  | -            | ├            | ├            |          | $\vdash$       | $\vdash$ |  |
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|       | 137                             |  |          | _  |              |              | H            |          | $\vdash$       | H        |  |
|       | 138                             | <u> </u>   |          | Г  | Г            | $\vdash$     |              |          |                | П        |  |
|       | 139                             | Г  |          |  |              |              |              |          |                |          |  |
|       | 140                             |  |          |  |              |              |              |          |                |          |  |
|       | 141                             |  |          |  |              |              |              |          |                |          |  |
|       | 142                             |  |          | L  |              | $\Box$       |              |          |                |          |  |
|       | 143                             | $oxed{oxed}$                                     |          | <u> </u>   | <u> </u>     |              | <u> </u>     | L_       | L.,            | Щ        |  |
|       | 144                             | <u> </u>   |          | <u> </u>   | _            | _            |              |          |                | Ш        |  |
|       | 145                             | _  | Ш        | <u> </u>   |              | <u> </u>     | <u> </u>     | <u> </u> | <u> </u>       | Щ        |  |
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|       | 150                             |  |          |  |              |              | L            | L        | $oxed{L}$      | L        |  |